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Management of a remote backup copy for disaster recovery

Richard P. King, Nagui Halim, Hector Garcia-Molina, Christos A. Polyzois May 1991 ACM Transactions on Database Systems (TODS), Volume 16 Issue 2

Publisher: ACM Press

Full text available: pdf(2.48 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A remote backup database system tracks the state of a primary system, taking over transaction processing when disaster hits the primary site. The primary and backup sites are physically isolated so that failures at one site are unlikely to propogate to the other. For correctness, the execution schedule at the backup must be equivalent to that at the primary. When the primary and backup sites contain a single processor, it is easy to achieve this property. However, this is harder to do when ...

Keywords: database initialization, hot spare, hot standby, remote backup

2 Disaster Recovery

Mark F. Komarinski

August 1994 Linux Journal

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(10.60 KB) Additional Information: full citation, abstract, index terms

Something is wrong, now what: This article will help you figure out what went wrong, how to get started on fixing it, or now to prepare for possible crashes.

3 ARIES: a transaction recovery method supporting fine-granularity locking and partial

rollbacks using write-ahead logging

C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz March 1992 ACM Transactions on Database Systems (TODS), Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(5.23 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXODUS and Gamma d ...

Keywords: buffer management, latching, locking, space management, write-ahead logging 4 Multi-level transaction management for complex objects: implementation, performance, parallelism Gerhard Weikum, Christof Hasse October 1993 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 2 Issue 4 Publisher: Springer-Verlag New York, Inc. Additional Information: full citation, abstract, references, citings Full text available: pdf(2.83 MB) Multi-level transactions are a variant of open-nested transactions in which the subtransactions correspond to operations at different levels of a layered system architecture. They allow the exploitation of semantics of high-level operations to increase concurrency. As a consequence, undoing a transaction requires compensation of completed subtransactions. In addition, multi-level recovery methods must take into consideration that high-level operations are not necessarily atomic if multiple pages ... Keywords: atomicity, complex objects, inter- and intratransaction parallelism, multi-level transactions, performance, persistence, recovery 5 Proceedings - only: The data management problem in post-pc devices and a solution Ramakrishna Gummadi, Randy H. Katz September 2000 Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system **Publisher: ACM Press** Full text available: pdf(104.50 KB) Additional Information: full citation, abstract, references The demand for network-enabled limited-footprint mobile devices is increasing rapidly. A central challenge that must be addressed in order to use these next-generation devices effectively is efficient data management --- persistent data manipulated or required by applications executing on these computationally and communicationally impoverished devices must be consistently managed and made highly available. This data management has traditionally been the ... 6 Disaster recovery planning for academic computing centers Renate Rohde, Jim Haskett June 1990 Communications of the ACM, Volume 33 Issue 6 Publisher: ACM Press Additional Information: full citation, abstract, references, index terms, Full text available: pdf(691.04 KB) review Planning for recovery from a disaster is quickly becoming recognized as a necessity for higher education computing installations. This article presents a structural framework, describes the stages, and tells how to implement a disaster recovery plan specifically geared to an academic computing organization. Keywords: backup files, recovery, system management 7 <u>Disaster recovery techniques for database systems</u> Manhoi Choy, Hong Va Leong, Man Hon Wong November 2000 Communications of the ACM

Full text available: pdf(412,04 KB) Additional Information: full citation, references, index terms

Publisher: ACM Press

8 Computer backup pools, disaster recovery, and default risk

Yehuda Kahane, Seev Neumann, Charles S. Tapiero

January 1988 Communications of the ACM, Volume 31 Issue 1

Publisher: ACM Press

Full text available: pdf(688.36 KB)

Additional Information: full citation, abstract, references, index terms, review

There is a growing popularity of computer backup pools, where a few members share the ownership, or right for service, of a computer center. Such a center stands by to provide for the lost computing capacity of a member suffering a computer breakdown and disaster recovery. The efficiency of such a solution may be examined from various points of view, such as costs, response time, reliability etc. We focus on the reliability of such an arrangement. Two types of default risks are discussed: t ...

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DB=B	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
<u>L12</u>	((disaster\$ or failure\$) and database\$ and (updat\$ or modif\$) and log near block\$ and primary near database\$ and secondary near database\$).clm.	. 0	<u>L12</u>
<u>L11</u>	((disaster\$ or failure\$) and database\$ and (updat\$ or modif\$) and log near block\$ and primary near database\$ and secondary near database\$).ab.	0	<u>L11</u>
<u>L10</u>	((disaster\$ or failure\$) and database\$ and (updat\$ or modif\$) and log near block\$ and primary near database\$ and secondary near database\$).ti.	0	<u>L10</u>
<u>L9</u>	L8 and primary near database\$ and secondary near database\$	9	<u>L9</u>
<u>L8</u>	(disaster\$ or failure\$) and database\$ and (updat\$ or modif\$) and log near block\$	144	<u>L8</u>
<u>L7</u>	L6 and L5	10	<u>L7</u>
<u>L6</u>	(disaster\$ or failure\$) same (database\$).clm.	671	<u>L6</u>
<u>L5</u>	L4 and L3	257	<u>L5</u>
<u>L4</u>	(disaster\$ or failure\$) same (database\$).ab.	1757	<u>L4</u>
<u>L3</u>	(disaster\$ or failure\$) same (database\$).ti.	605	<u>L3</u>
<u>L2</u>	(disaster\$ or failure\$) same database\$	11388	<u>L2</u>
DB=0	USPT; PLUR=YES; OP=OR		

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<u>L7</u>	L6 and L5	10	<u>L7</u>
<u>L6</u>	(disaster\$ or failure\$) same (database\$).clm.	671	<u>L6</u>
<u>L5</u>	L4 and L3	257	<u>L5</u>
<u>L4</u>	(disaster\$ or failure\$) same (database\$).ab.	1757	<u>L4</u>
<u>L3</u>	(disaster\$ or failure\$) same (database\$).ti.	605	<u>L3</u>
<u>L2</u>	(disaster\$ or failure\$) same database\$	11388	<u>L2</u>
DB = USP	T; PLUR=YES; OP=OR		
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END OF SEARCH HISTORY

Hit List

First HitClear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 1 through 10 of 10 returned.

1. Document ID: US 20060015500 A1

Using default format because multiple data bases are involved.

L7: Entry 1 of 10

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060015500

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060015500 A1

TITLE: System and method for securing <u>database</u> records from tampering and managing and recovering from component <u>failure</u> in devices such as postage value dispensing systems

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Heiden; Richard W. Shelton CT US

US-CL-CURRENT: 707/9

Full | Title | Citation | Front | Review | Classification | Date | References | Sequences | Attachments | Claims | KMC | Draw Desc | Image |

2. Document ID: US 20050283504 A1

L7: Entry 2 of 10 File: PGPB

PGPUB-DOCUMENT-NUMBER: 20050283504

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050283504 A1

TITLE: Disaster recovery system suitable for database system

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

3. Document ID: US 20040098371 A1

L7: Entry 3 of 10

File: PGPB

May 20, 2004

Dec 22, 2005

PGPUB-DOCUMENT-NUMBER: 20040098371

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040098371 A1

TITLE: Failure recovery in a parallel-processing database system

4. Document ID: US 20030126163 A1

L7: Entry 4 of 10

File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030126163

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030126163 A1

TITLE: Method for file deletion and recovery against system failures in database management

system

Full Title Citation Front Review Classification (Date References Sequences Attachments Claims ISMC Draw Desc Image

5. Document ID: US 20020196969 A1

L7: Entry 5 of 10

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020196969

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020196969 A1

TITLE: Web-based interface with defect database to view and update failure events

Full | Title | Citation | Front | Review | Classification | Date | References | Sequences | Attachments | Claims | KMC | Draw Desc | Image |

6. Document ID: US 6944635 B2

L7: Entry 6 of 10

File: USPT

Sep 13, 2005

US-PAT-NO: 6944635

DOCUMENT-IDENTIFIER: US 6944635 B2

TITLE: Method for file deletion and recovery against system failures in database management

system

Full | Title | Citation | Front | Review | Classification | 8Date | Reference | Claims | KMC | Draw Desc | Image

7. Document ID: US 6775630 B2

L7: Entry 7 of 10

File: USPT

Aug 10, 2004

US-PAT-NO: 6775630

DOCUMENT-IDENTIFIER: US 6775630 B2

TITLE: Web-based interface with defect database to view and update failure events

Full Title Citation Front Review Classification Date Reference Classification Classification Date Reference

8. Document ID: US 6732123 B1

Record List Display

Page 3 of 3

May 4, 2004

L7: Entry 8 of 10 File: USPT

US-PAT-NO: 6732123

DOCUMENT-IDENTIFIER: US 6732123 B1

TITLE: Database recovery to any point in time in an online environment utilizing disaster

recovery technology

Full Title Citation Front Review Classification Date Reterence Claims NAC Draw Desc Image

9. Document ID: US 6567928 B1

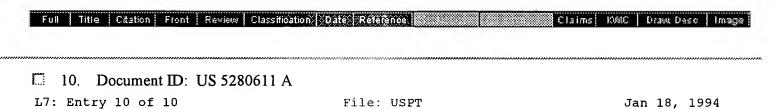
L7: Entry 9 of 10 File: USPT May 20, 2003

US-PAT-NO: 6567928

DOCUMENT-IDENTIFIER: US 6567928 B1

TITLE: Method and apparatus for efficiently recovering from a failure in a database that

includes unlogged objects

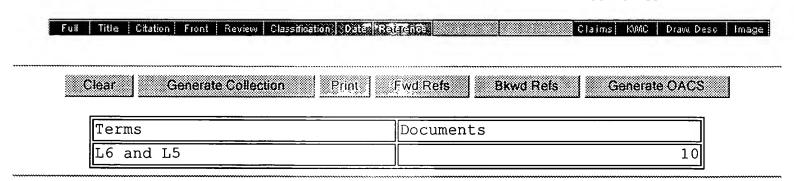


US-PAT-NO: 5280611

DOCUMENT-IDENTIFIER: US 5280611 A

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TITLE: Method for managing <u>database</u> recovery from <u>failure</u> of a shared store in a system including a plurality of transaction-based systems of the write-ahead logging type



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Search Results - Record(s) 1 through 9 of 9 returned.

1. Document ID: US 20060010180 A1

Using default format because multiple data bases are involved.

L9: Entry 1 of 9

File: PGPB

Jan 12, 2006

PGPUB-DOCUMENT-NUMBER: 20060010180

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060010180 A1

TITLE: Disaster recovery processing method and apparatus and storage unit for the same

PUBLICATION-DATE: January 12, 2006

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Kawamura; NobuoAtsugiJPYamaguchi; KotaYamatoJPOeda; TakashiSagamiharaJP

US-CL-CURRENT: 707/204

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

2. Document ID: US 20050193034 A1

L9: Entry 2 of 9 File: PGPB Sep 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050193034

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050193034 A1

TITLE: Disaster recovery processing method and apparatus and storage unit for the same

Full Title Citation Front Review Classification Oate References Sequences Attachments Claims KMC Draw Desc Image

3. Document ID: US 20050114407 A1

L9: Entry 3 of 9 File: PGPB May 26, 2005

PGPUB-DOCUMENT-NUMBER: 20050114407

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050114407 A1

TITLE: High-performance asynchronous peer-to-peer remote copy for <u>databases</u>

Full Title Citation Front Review Classification *Date Reference Sequences Attachments Claims KWC Draw Desc Image

4. Document ID: US 20040193658 A1

L9: Entry 4 of 9

File: PGPB

Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040193658

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040193658 A1

TITLE: Disaster recovery processing method and apparatus and storage unit for the same

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw Desc | Image |

5. Document ID: US 20040139124 A1

L9: Entry 5 of 9

File: PGPB

Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040139124

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040139124 A1

TITLE: Disaster recovery processing method and apparatus and storage unit for the same

Full Title Citation Front Review Classification Dates Relegence Sequences Attachments Claims RMC Draw Desc Image

6. Document ID: US 20040098425 A1

L9: Entry 6 of 9

File: PGPB

May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040098425

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040098425 A1

TITLE: Database System Providing Improved Methods For Data Replication

Full Title Citation Front Review Classification Date References Sequences Attachments Claims KMC Draw Desc Image

7. Document ID: US 20020083281 A1

L9: Entry 7 of 9

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020083281

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020083281 A1

TITLE: Write logging in mirrored disk subsystems

8. Document ID: US 5937343 A

L9: Entry 8 of 9

File: USPT

Aug 10, 1999

US-PAT-NO: 5937343

DOCUMENT-IDENTIFIER: US 5937343 A

TITLE: Method and system for updating replicated databases in a telecommunication network

system

Full Title Citation Front Review Classification Costes Rest. Inc. Claims KMC Draw Desc Image

9. Document ID: US 5913160 A

L9: Entry 9 of 9

File: USPT

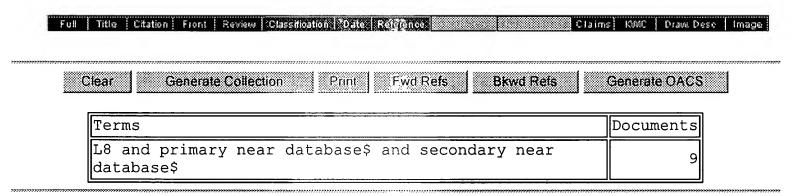
Jun 15, 1999

US-PAT-NO: 5913160

DOCUMENT-IDENTIFIER: US 5913160 A

TITLE: Method and system for updating replicated databases in foreign and home

telecommunication network systems for supporting global mobility of network customers



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